



*U.S. Army Space and Missile Defense Command/
Army Forces Strategic Command*



USASMDC/ARSTRAT

JFCC IMD

Command Update

Fires Seminar 17 May 2012

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Our Reporting Chain

Our Mission



USASMDC / ARSTRAT

JFCC IMD

USASMDC/ARSTRAT conducts space and missile defense operations and provides planning, integration, control and coordination of Army forces and capabilities in support of U.S. Strategic Command missions; serves as the Army force modernization proponent for space, high altitude and global missile defense; serves as the Army operational integrator for global missile defense; and conducts mission-related research and development in support of Army Title 10 responsibilities.

Assigned as Commanding General Joint Functional Component Command for Integrated Missile Defense.

“Three Hats”



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Organizational Vision Statement

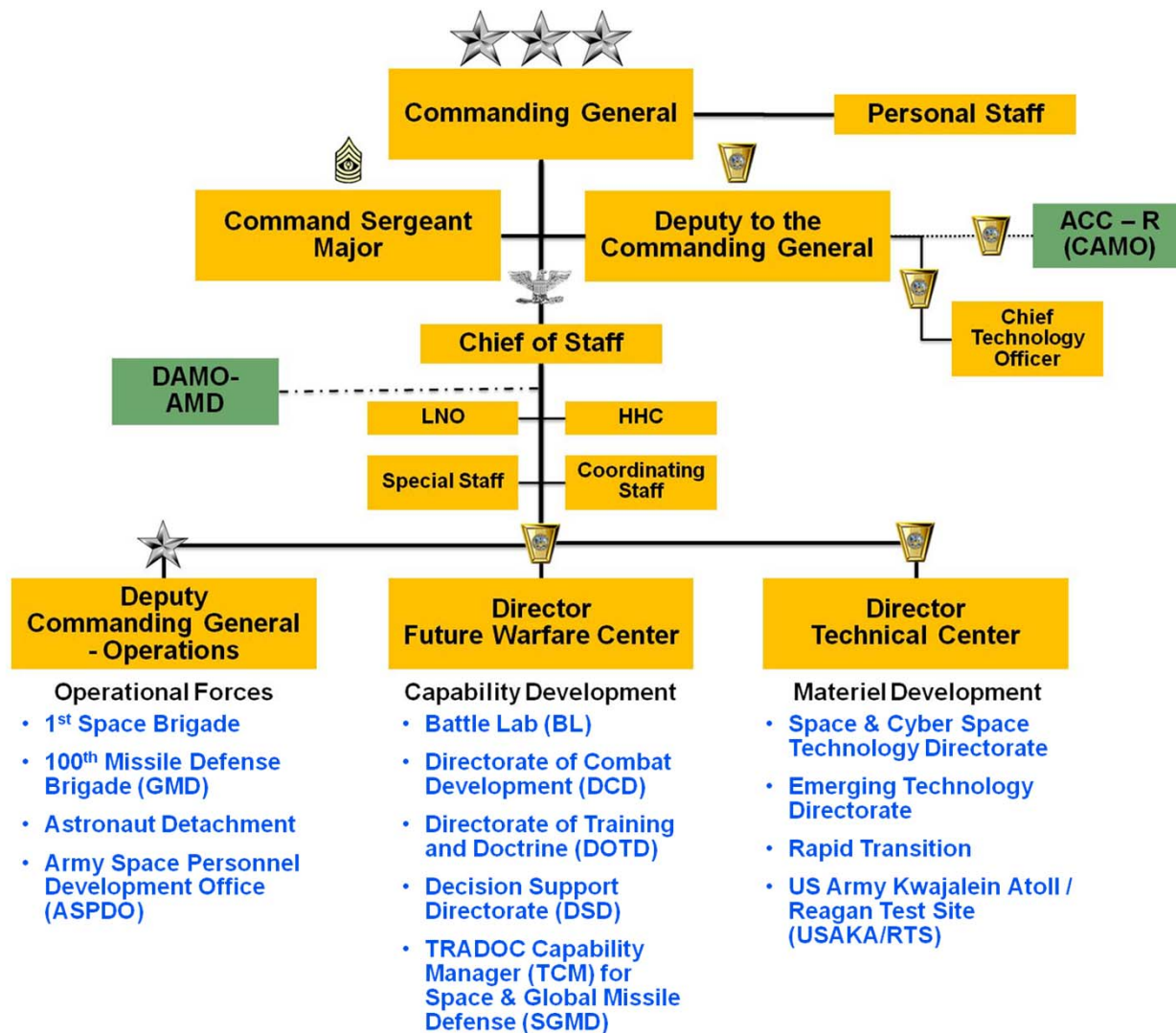
- A diverse, complex, and global command that provides critical capabilities to our Army, USSTRATCOM, COCOMs/ASCCs; in synch with JFCC-IMD
- One command...split based...multi-component...diverse constituencies...dispersed locations...talented work force of Soldiers, Civilians, contractors; public servants
- The Army's force modernization proponent for Space, High Altitude, and Global Missile Defense; the Army's operational integrator for Global Missile Defense:
 - Providing trained and ready Space and Missile Defense forces and capabilities in service to the Warfighter and the Nation (today)
 - Building future Space and Missile Defense forces (tomorrow)
 - Researching, testing, and integrating Space, Missile Defense, cyber, directed energy, & related technologies (day-after-tomorrow)
- Close, collaborative relationships with MDA and a multitude of stakeholders
- Nested within the Army's enterprise; engaged with and embedded in the HQDA DAMO-AMD
- Provide staff support to ARCYBER; retain close organizational linkages
- Disciplined stewards of our nation's resources – accountable cost culture
- Precise, confident, fit, disciplined, courageous Soldiers and Civilians; tough, caring, courageous leaders; committed to safety in all that we do
- A responsible and cooperative tenant on the installations on which we live and serve
- A values based command – caring for and serving Soldiers, Civilians, Families



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Organization



Three Core Tasks:

- Provide trained and ready Space and Missile Defense forces and capabilities to the Warfighter and the Nation (today)
- Build future Space and Missile Defense forces (tomorrow)
- Research, test, and integrate Space, Missile Defense, cyber, directed energy, & related technologies (day-after-tomorrow)

"Secure the High Ground"

The sun never sets on USASMDC/ARSTRAT

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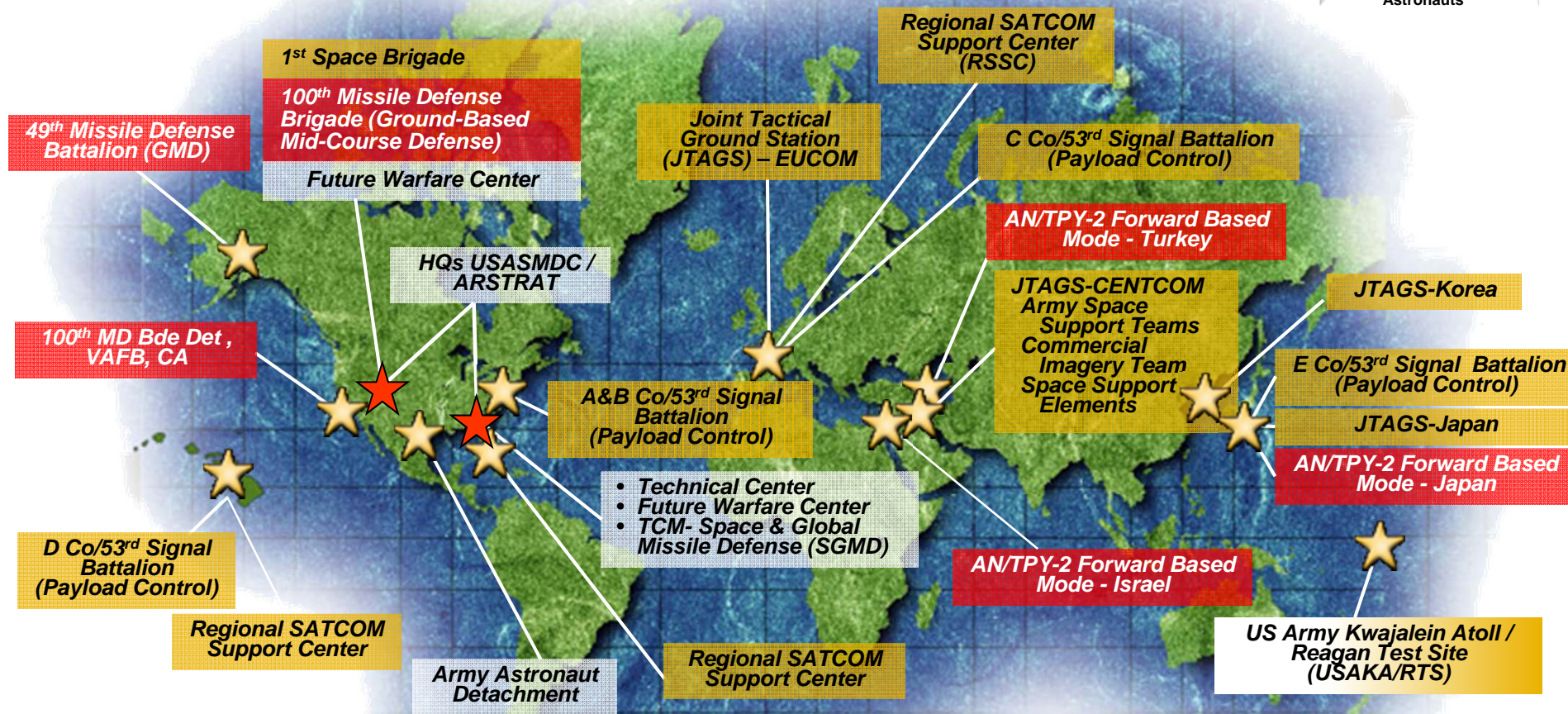


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A Global Command

Gold: Space Ops
Red: Missile Defense Ops
White: HQs, FWC, Technical Center and Army Astronauts



Uniquely Organized – Geographically Well-Positioned

“Secure the High Ground”

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Operations (today)

Deliverables:

- On any given day – provides more than 840 Operational Forces; US-based, forward-stationed or deployed supporting missile defense and space operations
- Provides missile defense crews 24/7/365, protecting 300 million Americans
- Delivers theater missile warning to deployed forces
- Manages wide-band satellite communications services and support
- Provides Joint Friendly Force Tracking capability
- Provides space based imagery to ground forces
- Provides space tracking and space situational awareness capabilities to USSTRATCOM
- Oversees professional development and career management of Army Space Officers (FA40s)
- Provides operational support for human space flight programs





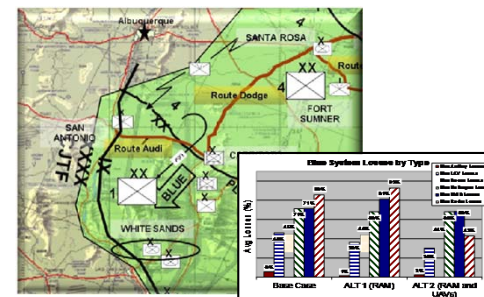
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Capability Development (tomorrow)

Deliverables:

- Proponent for Space, High Altitude and Global Missile Defense forces and capabilities
- Develops Army Doctrine, Organizations, Training, Materiel, Leader Development, Personnel and Facilities for future space and missile defense forces
- Conducts Army concept development & experimentation for space, missile defense and high altitude capabilities
- Trains and educates the Army's space and missile defense professionals; recognized as U.S Army Training and Doctrine Command Institute of Excellence
- Performs modeling and simulation-based analysis to assess contributions of space, high altitude and missile defense capabilities and inform Army and DoD investments
- Integrates space concepts into Army leader and Soldier institutional training and education



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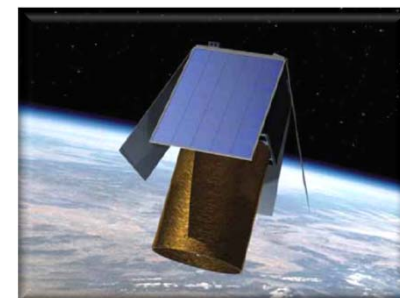
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Matériel Development (day-after-tomorrow)

Deliverables:

- Operates Kwajalein Atoll / Reagan Test Site as a Major Range and Test Facility Base
- Space, High Altitude and Missile Defense Research and Development Initiatives
 - Nano-satellite technology demonstrations (phased approach, 2012-2014)
 - Long Endurance Multi Intelligence Vehicle (LEMV) operational deployment in 2012
 - High Energy Laser Technology Demonstrator; Counter Rocket, Mortars and Artillery
 - High Power Microwave Weapons and other technologies for Counter-IED (LightGuard Minotaur Early User Test, 2012-2013)
 - Advanced Hypersonic Weapon development
- Research and development supporting Army Cyber Command



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So – What Have We Been Up To?

Operations

- Deployed 8 Army Space Support Teams (ARSSTs), 2 Commercial Imagery Teams (CITs) and 2 Army Space Control Element (ASCE) teams
- Supported 15 exercises
- Deployed AN/TPY-2 Forward Based Mode Radars
 - EUCOM - Turkey achieved Technical Capability in Dec 11
 - CENTCOM - Interim Site projected for July 12
 - 2nd PACOM Site under evaluation
- Modernized FT Detrick Wideband SATCOM Operations Center
- Supported early orbit testing of fourth Wideband Global SATCOM (WGS – 4)
- Supported early orbit testing of first Mobile User Objective System (MUOS)

Capability Development

- Revising Space and Missile Defense doctrine IAW Doctrine 2015 Strategy
- Supported Army 2020 Task Force and Unified Quest 12
- Developed Army Space White Paper
- Drafted *Proactive Missile Defense* white paper
- Training over 4000 Space and Missile Defense Students
- Supported Network Integration Evaluation (NIE) with an aerostat to host communications payloads



So – What Have We Been Up To?

Material Development

- Launched first successful Advanced Hypersonic Weapon
- Initiated Joint Capabilities Technology Demonstration (JCTD) efforts
 - Two nanosatellite systems (SNaP for BLOS communications and Kestrel Eye for ISR support)
 - One low-cost space launch system (Soldier Warfighter Operationally Responsive Deployer System - SWORDS)
- Selected by NRO to provide two SMDC-One nanosatellites as secondary payloads – will demonstrate BLOS communications for the Warfighter
- Launched Economical Target (ET-1) using SMDC's 25K Transportable Target Launcher
- Completed High Energy Laser Technology Demonstrator (HEL TD)
 - Successful Low Power Operational Design Reference Mission (DRM) Test – Dec 11
- Initiated High Energy Laser Mobile Demonstrator (HEL MD)
 - 10 kW Demonstration projected for Jan 13
- Led an Army-wide effort to evaluate Electric Fires potential and threat



And So What's Ahead in 2013

Operations

- Continue to provide trained and ready Space and Missile Defense Forces: 8 deployments & 11 exercises
- Modernize Landstuhl WSOC
- Operational acceptance of WGS-4 and MUOS-1
- Provide SHF Consolidated SATCOM System Expert (C-SSE) capability
- Provide UHF Consolidated SATCOM System Expert (C-SSE) capability

Capability Development

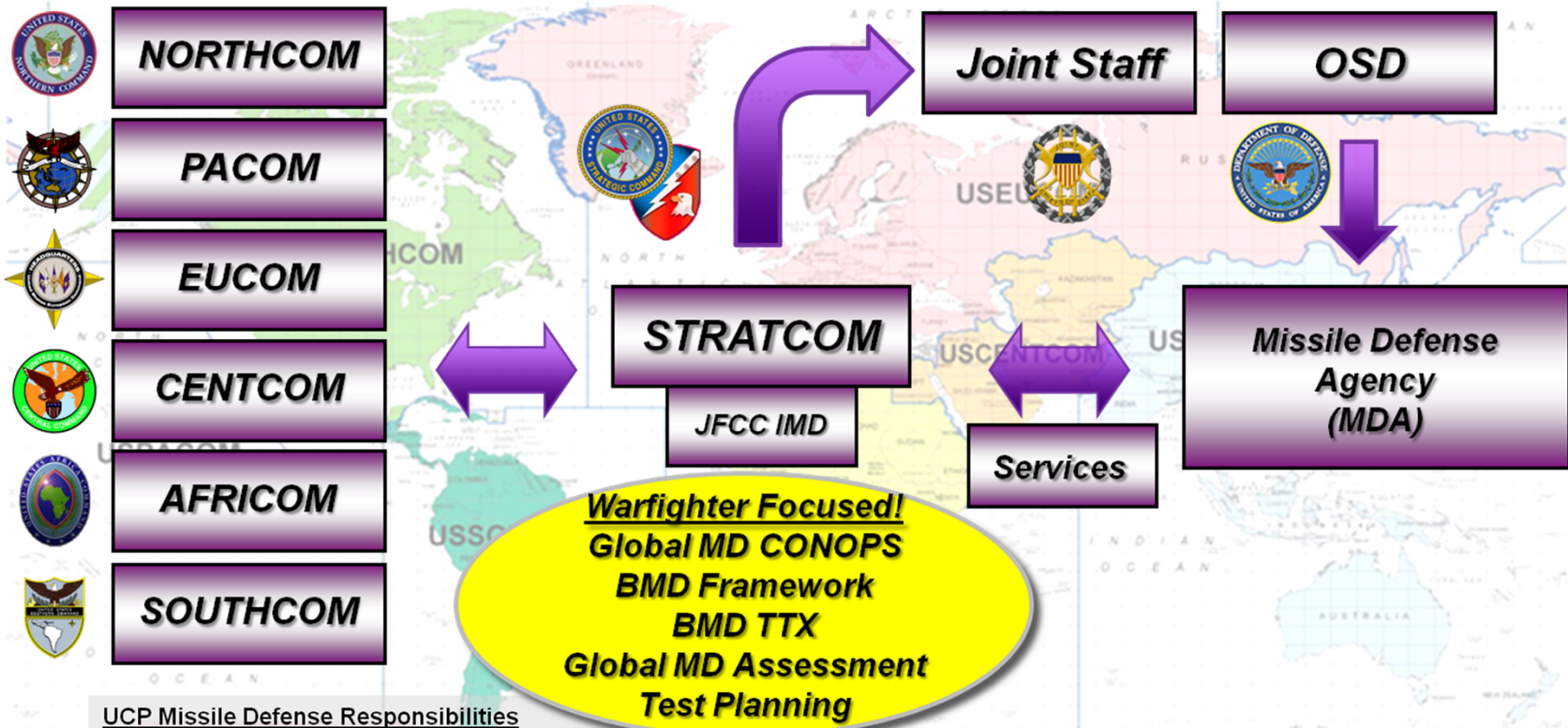
- Inform and influence future force structure through Total Army Analysis (TAA) and the Army 2020 study
- Standardize AN/TPY-2 FBM support to the GCCs (DOTmLPF Catch-up)
- Complete transition of the GMD Operator's Course from MDA to the Army, and train over 2,800 Space and Missile Defense Soldiers, Civilians, and Joint service members
- Support PEO Missiles and Space with a study on Integrated Air and Missile Defense that identifies appropriate architecture, firing doctrine and inventory balance

Materiel Development

- Deploy Long Endurance Multi-Intelligence Vehicle (LEMV)
- Work with OSD to plan for next AHW flight test
- Perform UAS defeat mission demonstrations using mobile demonstrator with onboard 10 kW power laser (High Energy Laser Mobile Demonstrator field testing)
- Conduct extensive lethality testing against rockets, artillery, mortars and unmanned aerial systems (Solid State Laser test bed)



USSTRATCOM/JFCC IMD Responsibilities and Tasks



UCP Missile Defense Responsibilities

- Synchronize planning for global BMD
- Coordinate global BMD operations support
- Develop/Maintain Global BMD CONOPS
- Provide military representation to US national agencies, commercial entities, and international agencies
- Advocate & coordinate global missile defense and warning capabilities and support
- Integrate TSC activities, deployments and capabilities ICW GCCs
- Provide alternate missile defense execution support

IMD Key Mission Tasks

- Synchronize operational missile defense planning
- Joint Functional Manager for missile defense
- Coordinate asset management for missile defense
- Provide alternate missile defense execution support
- [Joint Missile Defense Training](#)

Pro Mundi Vigilans !!

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Vigilant for the World !!



So what have we been up to?

- North Korea Space Launch Tracking
 - Clear dependence on missile defense assets, tactics, techniques & procedures
- Phobos Grunt (Russian satellite) Reentry Tracking
 - Heavy participation from MD community; lots of lessons learned
- Global BMD Framework
 - JS PLANORD briefed to VCJCS...driving major shifts in BMD allocation
- AN/TPY-2 Capability Acceptance
 - Worked capability acceptance of new EUCOM radar
- Presented GCCs options for alternate control of AN/TPY-2 / C2BMC
 - Used experience with control of Shariki to inform/guide EUCOM/CENTCOM decisions
- Combat Support Agency Transfer
 - Identified MDA roles/missions appropriate for realignment



So what have we been up to?

- Nimble Titan Regional Wargames in USPACOM / USEUCOM / CAPSTONE
 - Tackled key political/military issues that affect multinational BMD
- Ballistic Missile Defense 3-Star TTX
 - HUGE success; informed the GFM process – improving global MD allocation and employment decisions
- Integrated Master Test Plan
 - Participated in 8 major test events over the last year...many more to follow
- Operational Assessment of APOM
 - Numerous iterations...synchronized assessment with the PCL
- Global Force Management Board
 - Built FY13 GFMAP and a concept for creating a BMD Surge Force
- Missile Defense Executive Board / Ops Forces Stand Committee
 - Continued presence in decision making bodies governing missile defense



So what's ahead in 2013

- Phased Adaptive Approach
 - Continued to work placement of future BMD capabilities
 - Working AN TPY-2 radar Warfighter Acceptance in EUCOM...major step
- Exercises – Tier 1
 - Exercises demanding more MD involvement...important Senior Leader sessions
- BMDCON CJCSI
 - Follow up to BMD Framework effort with the Joint Staff and GCCs
- Following up on Joint BMD Training Study (BITENA)
 - Begin implementing future of BMDS Training & Education -- belongs with us
- Establish GCC LNOs
 - Further operationalize by providing steady state presence within GCCs
- Inclusion/utilization of Foreign Liaison Officers
 - Integrate Dutch & German LNOs into the staff
- Road Mobile ICBM
 - Preparing for emerging threats



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Closing Thoughts

USASMDC/ARSTRAT is the Army Service Component to USSTRATCOM

JFCC-IMD is the functional component to USSTRATCOM for Missile Defense

**CG USASMDC/ARSTRAT commands JFCC IMD because of the capabilities
USASMDC/ARSTRAT contributes as the ASCC**

Uniquely Organized

- Operations: 1st Space Brigade, 100th Missile Defense Brigade
- Capability Development: Future Warfare Center
- Materiel Development: Technical Center

Geographically Well-positioned

- Huntsville: co-located with MDA, AMC/AMCOM/ACC, PEO Missiles and Space, PEO Aviation, MSIC, NASA, and the technical base there
- Colorado Springs: co-located with MDA, NORTHCOM, US Air Force Space Command, JFCC IMD, and the technical base there

Providing critical capabilities to Combatant Commanders and Warfighters



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Questions?